

USSN 10/509,298

2

Drawing Corrections

RECEIVED  
CENTRAL FAX CENTER

FEB 08 2007

Please accept the attached replacement drawing sheets 1/2 and 2/2 containing corrected drawing Figures 1 and 3.

USSN 10/509,298

7

**RECEIVED  
CENTRAL FAX CENTER****FEB 08 2007****REMARKS**

The August 10, 2006, Office action rejected claims 1-17. To expedite prosecution of this case, this Amendment and Response amends claims 1-17 without prejudice or disclaimer. Applicants reserve the right to pursue the subject matter of the original claims in co-pending applications. Support for the amendments may be found in the originally filed specification, claims and figures; no new matter has been introduced. After entry of this amendment, claims 1-17 remain pending in the application including 1 independent claim. In view of the amendments and remarks presented in this paper, reconsideration of the application is respectfully requested.

**Objections to the Drawings**

In the August 10, 2006, Office action, the Examiner objected to the originally filed drawings because they failed to include the reference numeral "37," which was mentioned in the specification. With this Amendment and Response, Applicants submit replacement drawing sheet 2/2 containing corrected drawing Figure 3, which has been corrected to include reference numeral 37 as it refers to the measuring wheel(s) of the steering column module. Support for the amendment to drawing Figure 2/2 may be found in the originally filed specification, claims and figures; no new matter has been introduced. Applicants respectfully submit that the corrected drawing sheet addresses the deficiency cited by the Examiner and requests that this objection to the drawings be withdrawn.

In the August 10, 2006, Office action, the Examiner also objected to the originally filed drawings under 37 CFR 1.83(a) as failing to show every feature of the invention specified in the claims. More specifically, the Examiner objected to the drawings as failing to show the rotor as addressed in claims 1, 7, 8, and 17; the coupling to the onboard computer as addressed in claim 15; and the bus interface as addressed in claim 16. Applicants have rewritten the claims so as to no longer address the feature of the rotor. In addition, with this Amendment and Response, Applicants submit replacement drawing sheet 1/2 containing corrected drawing Figure 2, which has been corrected to include a bus interface and to depict a coupling to an onboard vehicle computer. Support for the amendment to drawing Figure 1/2 may be found in the originally filed specification, claims and figures; no new

USSN 10/509,298

8

matter has been introduced. Applicants respectfully submit that the corrected drawing sheet addresses the deficiencies cited by the Examiner and requests that this objection to the drawings be withdrawn.

#### Objections to the Claims

In the August 10, 2006, Office action, the Examiner objected to claims 6-17 as being improper form because a multiply dependent claim may not depend from another multiply dependent claim. Applicants have amended claims 1-17 so as to improve the grammatical form of the claims and to eliminate multiple dependencies. Accordingly, Applicants respectfully submit that this objection is no longer proper. Reconsideration and withdrawal of the objection to claims 6-17 are requested. Examination of claims 6-17 on the merits is further requested.

In the August 10, 2006, Office action, the Examiner objected to claims 3-17 on the basis of various informalities. Applicants have amended claims 3-17 so as to improve the grammatical form of the claims and to correct all of the deficiencies mentioned by the Examiner as well as a number of informalities discovered by Applicants. Accordingly, Applicants respectfully submit that these objections are no longer proper. Reconsideration and withdrawal of the objections to claims 3-17 are requested.

#### Rejections under 35 USC §112

In the August 10, 2006, Office action, the Examiner rejected claims 1-17 under 35 USC 112, second paragraph, as being indefinite. More specifically, the Examiner questioned how the measuring wheel 37 could be stationary, yet at the same time rotating and acting as a stator. The Examiner also questioned whether it is the measuring wheel or the electronic measuring sensors that are the stator. As mentioned above, applicants have amended the claims so as to improve their grammatical form and to eliminate the cited deficiencies. More specifically, applicants have rewritten claim 1 to clarify that applicants' steering angle sensor comprises a printed circuit board fixed within a module housing and at least one measuring wheel mounted in a wheel housing fixed on the circuit board. Further, Applicants' claim 1 recites that the measuring wheel is positioned and configured to rotate in response to a change in the rotational angle of the steering wheel, and that the circuit board comprises a

USSN 10/509,298

9

plurality of electronic measuring sensors that are connected to the on-board vehicle electrical system via the central printed-circuit board and that are configured to detect changes in the angle of the measuring wheel. Accordingly, Applicants respectfully submit that claim 1, as amended, is allowable. Claims 2-17 variously depend from amended claim 1, and therefore, are also allowable. Reconsideration and withdrawal of the rejection of claims 1-17 are requested.

#### **Objections to the Specification**

In the August 10, 2006, Office action, the Examiner objected to the Specification as failing to provide proper antecedent basis for the claimed subject matter. Specifically, the Examiner questioned where in the Specification support was provided for the terms "stationary" and "stator" as recited in the claims. Applicants respectfully submit that each of the claims, as rewritten, finds full support in the Specification. Accordingly, reconsideration and withdrawal of the objection to the Specification are requested.

#### **Allowable Subject Matter**

In the August 10, 2006, Office action, the Examiner indicated that claims 1-17 would be allowable if rewritten to overcome the rejections under 35 USC 112, second paragraph. Applicants have rewritten claims 1-17 and submit that they are now allowable.

Applicants have complied with all formal requirements or have specifically traversed each requirement not complied with.

RECEIVED  
CENTRAL FAX CENTER

FEB 08 2007

USSN 10/509,298

10

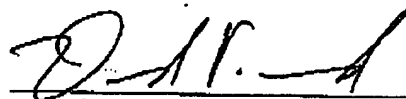
CONCLUSION

In view of the foregoing, Applicants request the withdrawal of the objections to the drawings and to claims 3-17 as well as the rejections of claims 1-17. Reconsideration of the application and allowance of all pending claims is earnestly solicited. Accordingly, the Examiner is requested to reconsider and allow claims 1-17 and pass the case to issue. Should the Examiner wish to discuss any of the above in greater detail or deem that further amendments should be made to improve the form of the claims, the Examiner is invited to contact the undersigned at the Examiner's convenience.

Please charge any necessary fees, including any extension of time, or any other fee deficiencies to Delphi Technologies, Inc., Deposit Account No. 50-0831.

Respectfully submitted,

By:



David P. Wood

Registration No: 45,932

Attorney for Applicants

Phone No. 248-813-1202

Fax No. 248-813-1222